

MSDS Code: 790-751

I BROWN IRON OXIDE NO. 46004

Revision Date: 01/29/2001

Date Printed: 01/29/2001

NFPA Classification:

Health: 1
Flammability: 0
Instability: 0
Special Hazards:

HMIS Classification:

Health: 2 *
Flammability: 0
Reactivity: 0
Personal Protection:

* Indicates possible chronic health effects.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name: Universal Dispersion Of C.I. Pigment Brown 6, C.I. Pigment Red 101 And C.I. Pigment Yellow 42

Chemical Name: Universal Dispersion Of C.I. Pigment Brown 6, C.I. Pigment Red 101 And C.I. Pigment Yellow 42

Formula: Chemical Mixture

Product Use: Industrial pigment.

Supplier: ENGELHARD CORPORATION
SPECIALTY PIGMENTS & ADDITIVES
101 WOOD AVENUE
ISELIN, NJ 08830-0770
1-732-205-6913 FOR CUSTOMER SERVICE
1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETY

For Chemical Emergency Call CHEMTREC (24 hours):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Notes</u>
Diethylene Glycol 111-46-6	20-30	None.
CI Pigment Red 101 1309-37-1	20-30	None.
Water 7732-18-5	10-20	None.
CI Pigment Yellow 42 51274-00-1	5-15	None.
Hydrated Magnesium Silicate 14807-96-6	5-15	None.

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Hydrous Silicate Of Alumina 1332-58-7	5 - 15	None.
Ethoxylated Nonyl Phenol 9016-45-9	1 - 5	None.
CI Pigment Black 6 1333-86-4	1 - 5	None.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Color: Brown
Form: Liquid
Odor: Odorless
Flash Point, °C: Not Determined

Most Important Hazards: May irritate eyes. MAY CAUSE EYE BURNS. Prolonged or repeated contact may cause skin absorption. Causes skin irritation. Chronic Overexposure Effects: Liver and kidney damage. Central nervous system damage. May cause skin irritation. Inhalation may result in respiratory irritation. Harmful by inhalation and if swallowed.

Potential Health Effects:

Inhalation: Exposure to vapors or mists, generated at higher temperatures, may cause drowsiness and headache.

Ingestion: May cause tissue damage. May cause central nervous system effects. May cause liver and kidney damage. May be fatal if swallowed.

Skin Contact: Prolonged or repeated contact may cause skin irritation. May cause systemic toxicity through skin absorption.

Eye Contact: Causes eye irritation. May cause eye burns.

Other Effects: NOTE: Laboratory animal studies indicate that GLYCOL ETHERS may cause reproductive effects.
NOTE: Inhalation of vapor and/or mist may be significant if material is heated or agitated/sprayed.

Carcinogenicity:

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
Diethylene Glycol 111-46-6	20-30	N	N	N	N
CI Pigment Red 101 1309-37-1	20-30	N	N3	N	A4
Water 7732-18-5	10-20	N	N	N	N
CI Pigment Yellow 42 51274-00-1	5-15	N	N	N	N
Hydrated Magnesium Silicate 14807-96-6	5-15	N	N3	N	A4
Hydrous Silicate Of Alumina 1332-58-7	5-15	N	N	N	A4

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Ethoxylated Nonyl Phenol 9016-45-9	1-5	N	N	N	N
CI Pigment Black 6 1333-86-4	1-5	N	Y2B	N	A4

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

Chronic Health Hazards: May cause liver and kidney damage. May cause formation of bladder stones. May cause bladder cancer.

Aggravated Medical Conditions: Kidney disorders. Liver disorders. Neurological ailments.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Ingestion: Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point, °C: Not Determined

Autoignition Temperature, °C: Not Determined

Lower Explosive Limit, %: Not Determined

Upper Explosive Limit, %: Not Determined

Extinguishing Media: Water. Carbon dioxide. Foam.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Contain spillage. Soak up spill using an absorbent. Scoop into a suitable container.

7. HANDLING AND STORAGE

Wash thoroughly after handling.
Keep away from food and feed products.
Keep container closed.
Keep from freezing.
Avoid breathing mist.
Avoid contact with eyes, skin and clothing.
Use with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Diethylene Glycol 111-46-6	20-30	None Established	None Established
CI Pigment Red 101 1309-37-1	20-30	10 mg/m3 (as Fe, total particulate)	5 mg/m3 (as Fe, fume)
Water 7732-18-5	10-20	None Established	None Established
CI Pigment Yellow 42 51274-00-1	5-15	10 mg/m3 (as Fe, total particulate)	None Established
Hydrated Magnesium Silicate 14807-96-6	5-15	2 mg/m3 (Containing no asbestos fibers, respirable dust)	2 mg/m3 (Containing no asbestos fibers, respirable dust)
Hydrous Silicate Of Alumina 1332-58-7	5-15	10 mg/m3 (Total dust) 5 mg/m3 (Respirable dust)	2 mg/m3 (Respirable fraction)
Ethoxylated Nonyl Phenol 9016-45-9	1-5	None Established	None Established
CI Pigment Black 6 1333-86-4	1-5	3.5 mg/m3	3.5 mg/m3

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2000 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

Personal Protective Equipment: Chemical goggles; also wear a face shield if splashing hazard exists. Rubber or neoprene gloves.

Respiratory Protection: Use approved respiratory protection if exposure limits are exceeded, or overexposure is likely.

Ventilation: General ventilation. Local exhaust ventilation as necessary to control dust, mist, vapor or fumes.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form: Liquid
Color: Brown
Odor: Odorless

Vapor Pressure: Max: 17.5mm Hg at 20 °C
Specific Gravity: Min: 1.5 Max: 2.5
Evaporation Rate: Much < 1
Solubility (in water): Dispersible
pH: Min: 7.5 Max: 9.5

10. STABILITY AND REACTIVITY

Stability Data: Stable

Conditions/Hazards to Avoid: None anticipated

Incompatibility (Materials to Avoid): None anticipated.

Hazardous Decomposition Products: None anticipated

Polymerization: None anticipated.

Polymerization - Avoid: None anticipated.

11. TOXICOLOGICAL INFORMATION

Information on Product:

Information on Components:

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
Diethylene Glycol 111-46-6	20-30	21,000 mg (rat)	Not Available	Not Available	Not Available
CI Pigment Red 101 1309-37-1	20-30	> 10,000 mg/kg (as Fe) (rat)	Not Available	Not Available	Not Available
Water 7732-18-5	10-20	Not Available	Not Available	Not Available	Not Available
CI Pigment Yellow 42 51274-00-1	5-15	>10,000 mg/kg (rat)	Not Available	Not Available	Not Available
Hydrated Magnesium Silicate 14807-96-6	5-15	Not Available	Not Available	Not Available	Not Available
Hydrous Silicate Of Alumina 1332-58-7	5-15	Not Available	Not Available	Not Available	Not Available
Ethoxylated Nonyl Phenol 9016-45-9	1-5	1,310 mg/kg (rat)	Not Available	Not Available	Not Available
CI Pigment Black 6 1333-86-4	1-5	Not Available	Not Available	Not Available	120 mg/kg intravenous (rat)

12. ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate: No data available.

Ecotoxicological Information: No data available.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

Disposal of Waste Method: This product, if disposed as received, is a non-hazardous waste. Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

14. TRANSPORT INFORMATION

International Transport Regulations:

UN/PIN Number: Not Regulated

US Transportation Regulations:

DOT Classification: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TDG Classification: Not Regulated

15. REGULATORY INFORMATION

International Inventories:

United States: This product or its ingredients are listed on or compliant with the TSCA Inventory.

Canada: Not Determined

Europe: Not Determined

Japan: Not Determined

Australia: Not Determined

Korea: Not Determined

US Federal Regulations:

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Diethylene Glycol 111-46-6	20-30	No
CI Pigment Red 101 1309-37-1	20-30	No
Water 7732-18-5	10-20	No
CI Pigment Yellow 42 51274-00-1	5-15	No

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Hydrated Magnesium Silicate 14807-96-6	5 - 15	No
Hydrous Silicate Of Alumina 1332-58-7	5 - 15	No
Ethoxylated Nonyl Phenol 9016-45-9	1 - 5	No
CI Pigment Black 6 1333-86-4	1 - 5	No

SARA 311/ 312 Hazard Categories:

Acute Health Hazard Chronic Health Hazard

CAA 602 Ozone Depleting Substances (ODS):

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOC Content: 328 g/L

US State Regulations:

VOC Content (CARB): 416

Canadian Regulations:

WHMIS Classification:

Not Determined

16. OTHER INFORMATION

Revision number: 6

Prepared By: Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....